

Abstract

5 The invention concerns a method for analysing an OFDM
signal ($r_{IF}(t)$) transporting a series of data symbols on
several orthogonal carrier frequencies, each data symbol
having a useful part separated by a guard period from
neighbouring data symbols, with an analysing device (40)
10 having a signal section (20) with a bandwidth (BW_A)
smaller than the bandwidth (BW_{OFDM}) of the OFDM signal.
The method comprises the steps of low pass filtering of
the OFDM signal with a low pass filter (24) and shifting
(26) the spectrum of the OFDM signal in order to obtain a
15 frequency shifted filtered OFDM signal ($r(i)$), whereby the
length of the impulse response of the low pass filter (24)
is shorter than the length of the guard periods of the
data symbols.

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(fig. 2 and fig. 3)